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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/757,633	01/14/2004	Alpaslan Demir	I-2-0546.1US	5780
24374	7590	11/06/2007	EXAMINER	
VOLPE AND KOENIG, P.C.			FOTAKIS, ARISTOCRATIS	
DEPT. ICC			ART UNIT	PAPER NUMBER
UNITED PLAZA, SUITE 1600			2611	
30 SOUTH 17TH STREET			MAIL DATE	DELIVERY MODE
PHILADELPHIA, PA 19103			11/06/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

**Supplemental  
Notice of Allowability**

Application No.

10/757,633

Examiner

Aristocratis Fotakis

Applicant(s)

DEMIR ET AL.

Art Unit

2611

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to 07/30/2007.
2. ☒ The allowed claim(s) is/are 1, 3, 8, 10, 15, 17 and 22 - 54.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                     |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|  | 9. <input type="checkbox"/> Other _____   |

## **DETAILED ACTION**

### ***Allowable Subject Matter***

Claims 1, 3, 8, 10, 15, 17 and 22 - 54 are allowed.

The following is an examiner's statement of reasons for allowance:

Re independent claims 1, 8 and 15 the prior art of record does not disclose a receiver comprising of a first delay unit, coupled to the real signal path, for receiving the digital real signal component and outputting the digital real signal component after a first predetermined delay period expires; a first adder, coupled to the real signal path and the first delay unit, for adding a negative value of the digital real signal component to the delayed digital real signal component output by the first delay unit to generate a first resulting signal; a first multiplier, coupled to the first adder, for multiplying the first resulting signal with a first compensation signal having a first predetermined value (.KI) to generate a second resulting signal; a second delay unit, coupled to the imaginary signal path, for receiving the digital imaginary signal component and outputting the digital imaginary signal component after a second predetermined delay period expires; and a second adder, coupled to the second delay unit and the first multiplier, for outputting the digital imaginary cross-talk compensated signal component.

Re independent claims 37, 43 and 49, the prior art of record does not disclose a receiver comprising a first delay unit, coupled to the imaginary signal path, for receiving the digital imaginary signal component and outputting the digital imaginary signal component after a first predetermined delay period expires; a first adder, coupled to the imaginary signal path and the first delay unit, for adding a negative value of the digital imaginary signal component to the delayed digital imaginary signal component output by the first delay unit to generate a first resulting signal; a first multiplier, coupled to the first adder, for multiplying the first resulting signal with a first compensation signal having a first predetermined value ( $K_2$ ) to generate a second resulting signal; a second delay unit, coupled to the real signal path, for receiving the digital real signal component and outputting the digital real signal component after a second predetermined delay period expires; and a second adder, coupled to the second delay unit and the first multiplier, for outputting the digital real cross-talk compensated signal component.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

**Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aristocratis Fotakis whose telephone number is (571) 270-1206. The examiner can normally be reached on Monday - Thursday 6:30am - 4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh M. Fan can be reached on (571) 272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AF

  
CHIEH M. FAN  
SUPERVISORY PATENT EXAMINER